



Original



ORDER NO.

GRAPHIC EQUALIZER/AMPLIFIER

BP-880

UC, EW, ES

UC, EW, ES

BP-450

UC, ES

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BP-880/650/450

1. SPECIFICATIONS

• BP-880

Power source 14 V DC (10.8 $-$ 15.6 V allowable) Grounding system Negative type Max. current consumption
Weight
Continuous power output is 8 W per channel min. into 4 $\Omega,$ both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output (BP-880/UC) 20 W×4 (EIAJ) Continuous power output (BP-880/EW,ES) 10 W×4 (1% dist, at 1 kHz)
Load impedance
(BP-880/EW,ES)
Distortion
$\label{eq:BOOSTER: 1.2-6 V/24 } BOOSTER: 1.2-6 \ V/24 \ \Omega$ Input level (BP-880/EW) DIN: 70 mV/20 k Ω BOOSTER: 3 V/24 Ω
Input level (BP-880/ES) DIN: $40-200$ mV/ 20 k Ω RCA: $0.2-1$ V/ 10 k Ω
BOOSTER: 1.2 – 6 V/24 Ω Equalization frequency 60 Hz, 125 Hz, 250 Hz, 500 Hz,
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• BP-650, 450

- bi 636, 436
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Continuous power output is 12 W per channel min. into 4 Ω , both channels driven 50 to 15,000 Hz with no more than 5% THD.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
1 kHz, 3.5 kHz, 10 kHz Equalization range ± 12 dB

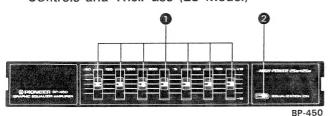
These specifications were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

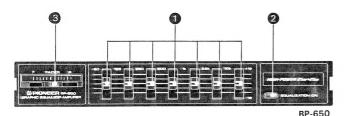
Note:

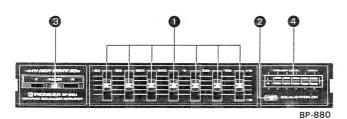
Specifications and the design are subject to possible modification without notice due to improvements.

2. OPERATION

· Controls and Their use (ES Model)







Equalizer Control

Slides up and down to allow adjustment to suit both the music and individual tastes. Pressing the equalization switch causes each indicator to illuminate.

Equalization Switch

Press to activate the equalizer control function and illuminate the indicator on the equalizer control lever.

3 Fader Control (BP-880, BP-650)

Adjusts the sound balance between the front and rear speakers when the unit is being used in a 4-speaker system. As the control is moved to the left, the rear speakers are faded out until the front speakers are operating alone; as the control is moved to the right, the front speakers are faded out until the rear speakers are operating alone. Important Note (BP-880)

• When listening to a 2-speaker system, position this lever at dead center.

4 Level Indicator (BP-880)

Green and red indicators illuminate corresponding to the left/right output levels.

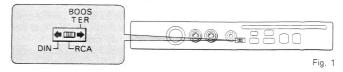
- If your car stereo has a fader control, set it to the center position.
- Changes in low-pitched sounds may not be discernible even when the 60Hz frequency level is adjusted if the program source does not include components in the 60Hz vicinity or if the small diameter speakers are used.

· Connecting the units (ES Model)

- Before making final connections, make temporary connections then operate the unit to check for any connecting cord problems.
- Be sure to connect only a single component as shown in the connection diagram. If two or more components are connected, internal circuitry may be damaged or an accident may occur. (BP-880, BP-650)
- When using this unit in combination with a car stereo equipped with RCA pin jacks, see the section entitled "When combined with a car stereo with RCA pin jacks." (BP-880, BP-650)
- Be aware that connection is different between 2-speaker system and 4-speaker system. Failure to follow the wiring diagram may cause considerable loss of power even when fader control is at the center position. (BP-650)
- A special BPTL circuit is used to be sure that you do not connect the speakers directly to ground nor join the left and right speaker
- For detailed information concerning connections between different components and this unit consult their respective owner's manuals and follow those recommendations precisely.
- Wire all connecting cords so that they stay well clear of hightemperature areas such as the heater exhaust port.
- Be sure to properly connect the color-coded leads. Failure to do so can cause malfunctions.

Input Selector (BP-880, BP-650)

Be sure to set the input selector before wiring. (Fig. 1)



DIN: When connecting the unit to a car stereo with DIN cord.

RCA: When connecting the unit to a car stereo with RCA pin jacks.

BOOSTER: When connecting the unit to a regular car stereo (unequipped with RCA pin jacks).

Gain Control

When gain adjustment is required, make adjustments with ascrew-driver. (Fig. 2)

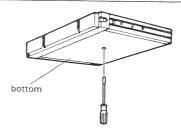


Fig. 2

• BP-650/ES (2-Speaker System)

When Combined with a Car Stereo with DIN cord

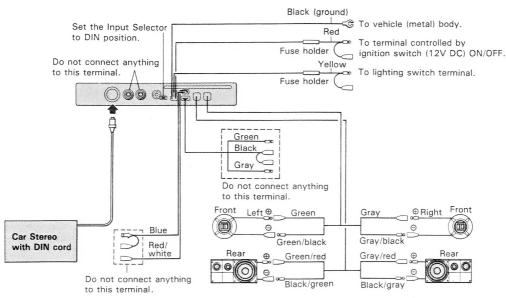


Fig. 8

• BP-880/ES, 650/ES (4-Speaker System)

When Combined with a Car Stereo with RCA Pin Jacks

 When using the BP-880 in a 2-speaker system, use either the front speaker cords or the rear speaker cords for connection as appropriate.

Note 1

If the car stereo has a blue lead (system control terminal), connect it to the blue lead (male) of this unit, without connecting anything to the red/white lead of this unit. If the car stereo does not

have a blue lead (system control terminal), connect the red/white lead or red lead of the car stereo to the red/white lead of the unit.

• The blue lead of a PIONEER car stereo to be connected to the unit may have an auto-antenna terminal. If it does, it cannot be connected to the blue lead (system control terminal) of the unit, so read the section on connections in the car stereo's owner's manual. If no sound comes from the speakers during the playing of a tape after they have been connected to the unit, connect the red/white or red lead of the car stereo to the red/white lead of the unit.

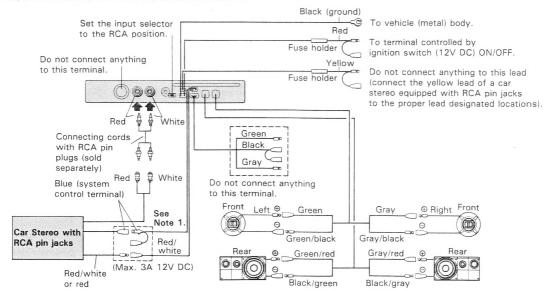


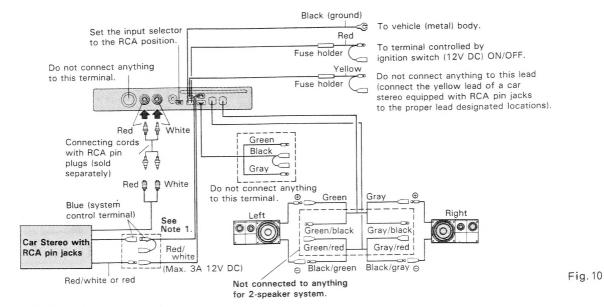
Fig. 9

BP-650/ES (2-Speaker System)

When Combined with a Car Stereo with RCA Pin Jacks

Note 1

- If the car stereo has a blue lead (system control terminal), connect it to the blue lead (male) of this unit, without connecting anything to the red/white lead of this unit. If the car stereo does not have a blue lead (system control terminal), connect the red/white lead or red lead of the car stereo to the red/white lead of the unit.
- The blue lead of a PIONEER car stereo to be connected to the unit may have an auto-antenna terminal. If it does, it cannot be connected to the blue lead (system control terminal) of the unit, so read the section on connections in the car stereo's owner's manual. If no sound comes from the speakers during the playing of a tape after they have been connected to the unit, connect the red/white or red lead of the car stereo to the red/white lead of the unit.



• BP-880/ES, 650/ES (4-Speaker System)

When Combined with a Regular Car Stereo (Unequipped with RCA pin jacks)

 When using the BP-880 in a 2-speaker system, use either the front speaker cords or the rear speaker cords for connection as appropriate.

Note 1

- If the car stereo has a blue lead (system control terminal), connectit to the blue lead (male) of this unit, without connecting anything to the red/white lead of this unit. If the car stereo does not
- have a blue lead (system control terminal), connect the red/white lead or red lead of the car stereo to the red/white lead of the unit.
- The blue lead of a PIONEER car stereo to be connected to the unit may have an auto-antenna terminal. If it does, it cannot be connected to the blue lead (system control terminal) of the unit, so read the section on connections in the car stereo's owner's manual. If no sound comes from the speakers during the playing of a tape after they have been connected to the unit, conrect the red/white or red lead of the car stereo to the red/whitelead of the unit.

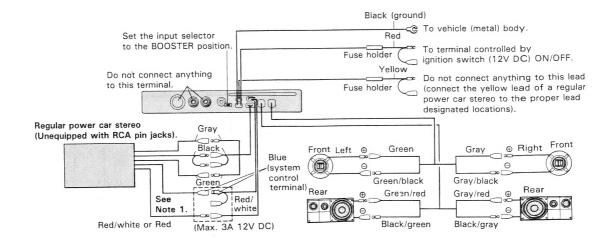


Fig. 11

• BP-650/ES (2-Speaker System)

When Combined with a Regular Car Stereo (Unequipped with RCA pin jacks)

Note 1

- If the car stereo has a blue lead (system control terminal), connect it to the blue lead (male) of this unit, without connecting anything to the red/white lead of this unit. If the car stereo does not
- have a blue lead (system control terminal), connect the red/white lead or red lead of the car stereo to the red/white lead of the unit.
- The blue lead of a PIONEER car stereo to be connected to the unit may have an auto-antenna terminal. If it does, it cannot be connected to the blue lead (system control terminal) of the unit, so read the section on connections in the car stereo's owner's manual. If no sound comes from the speakers during the playing of a tape after they have been connected to the unit, connect the red/white or red lead of the car stereo to the red/white lead of the unit.

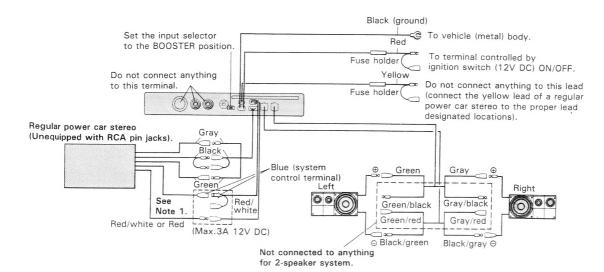
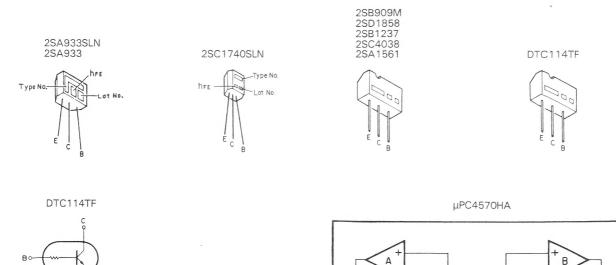


Fig. 12

• ICs and Transistors



4

IN-A

OUT-A NF

6

IN-B

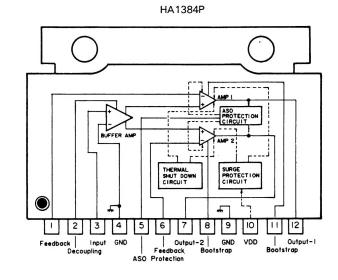
VEE

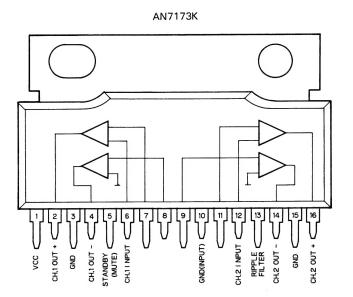
NE

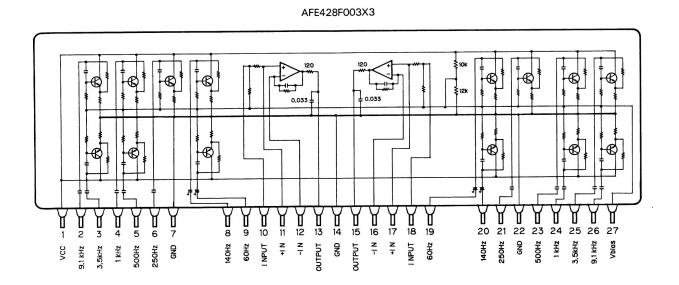
8

OUT-B

TA7362P Filip Flop Mute Sw1 Comparator Mute Sw2 Requiater Pute Sw2 Requiater Requiater







4. LEVEL DIAGRAM

• BP-880

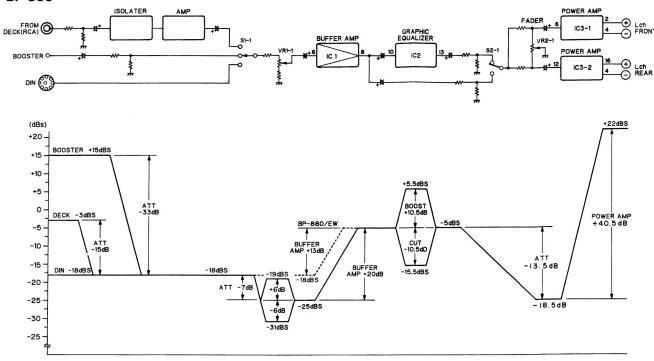


Fig. 13

• BP-650, 450

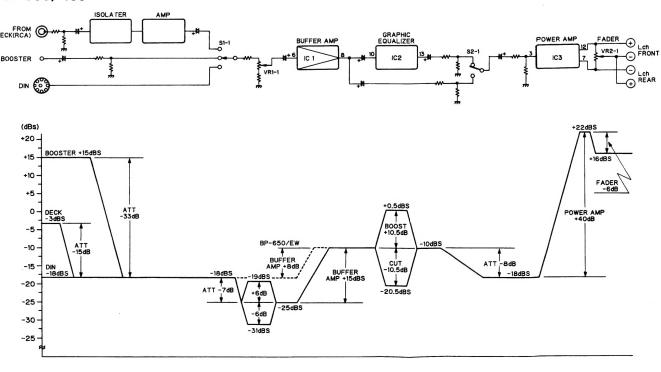


Fig. 14

5. SCHEMATIC CIRCUIT DIAGRAM (BP-880/ES)

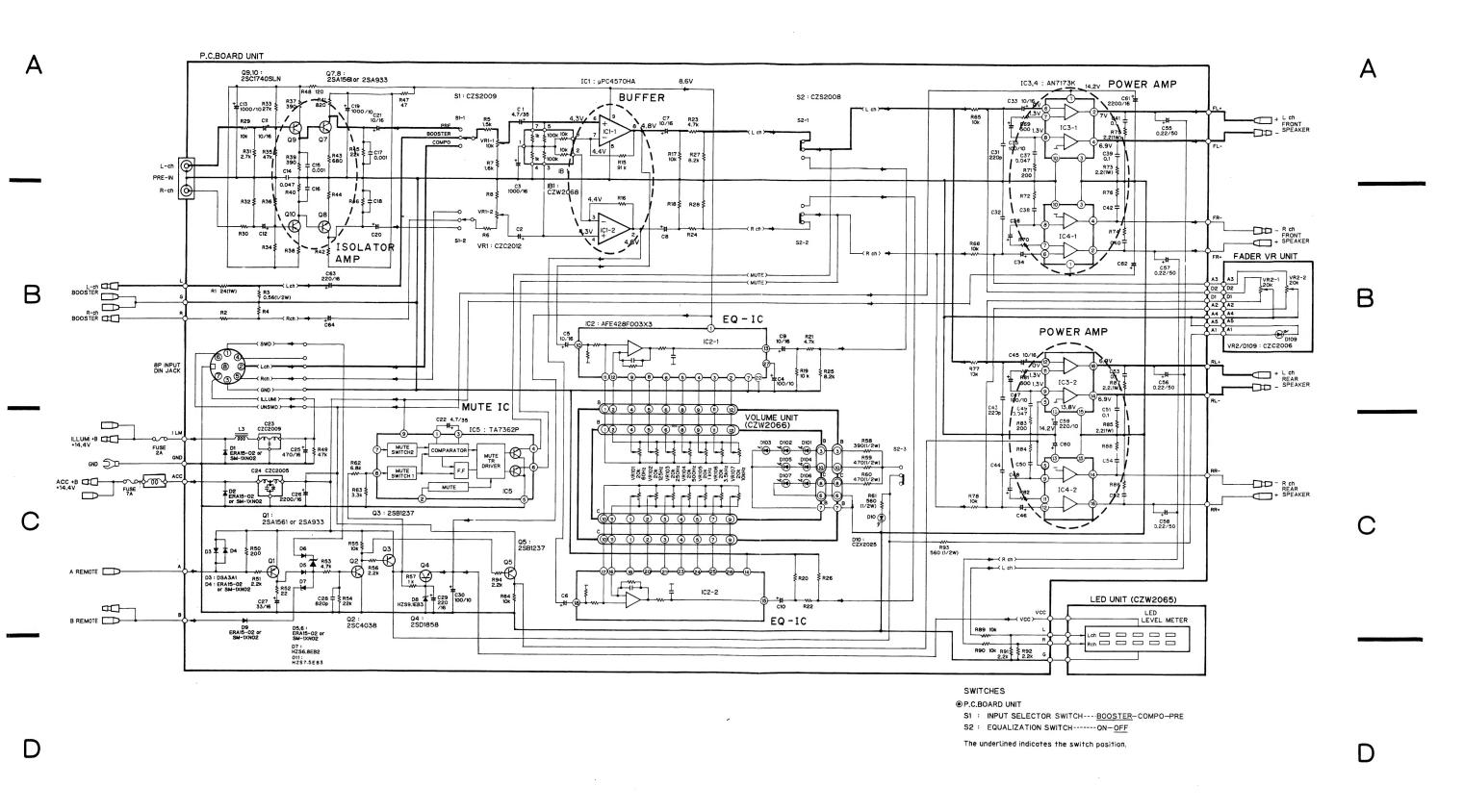


Fig. 15

1

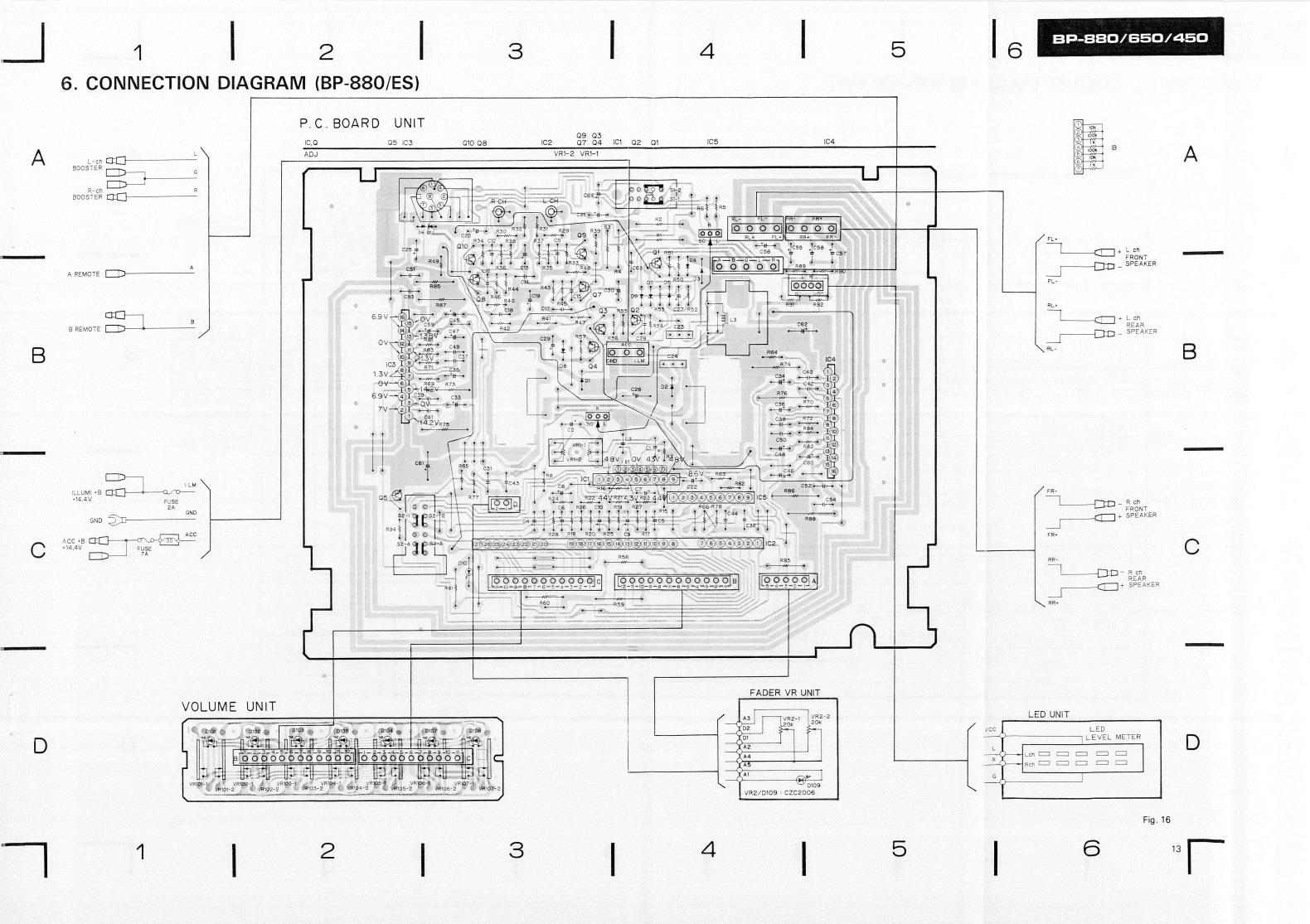
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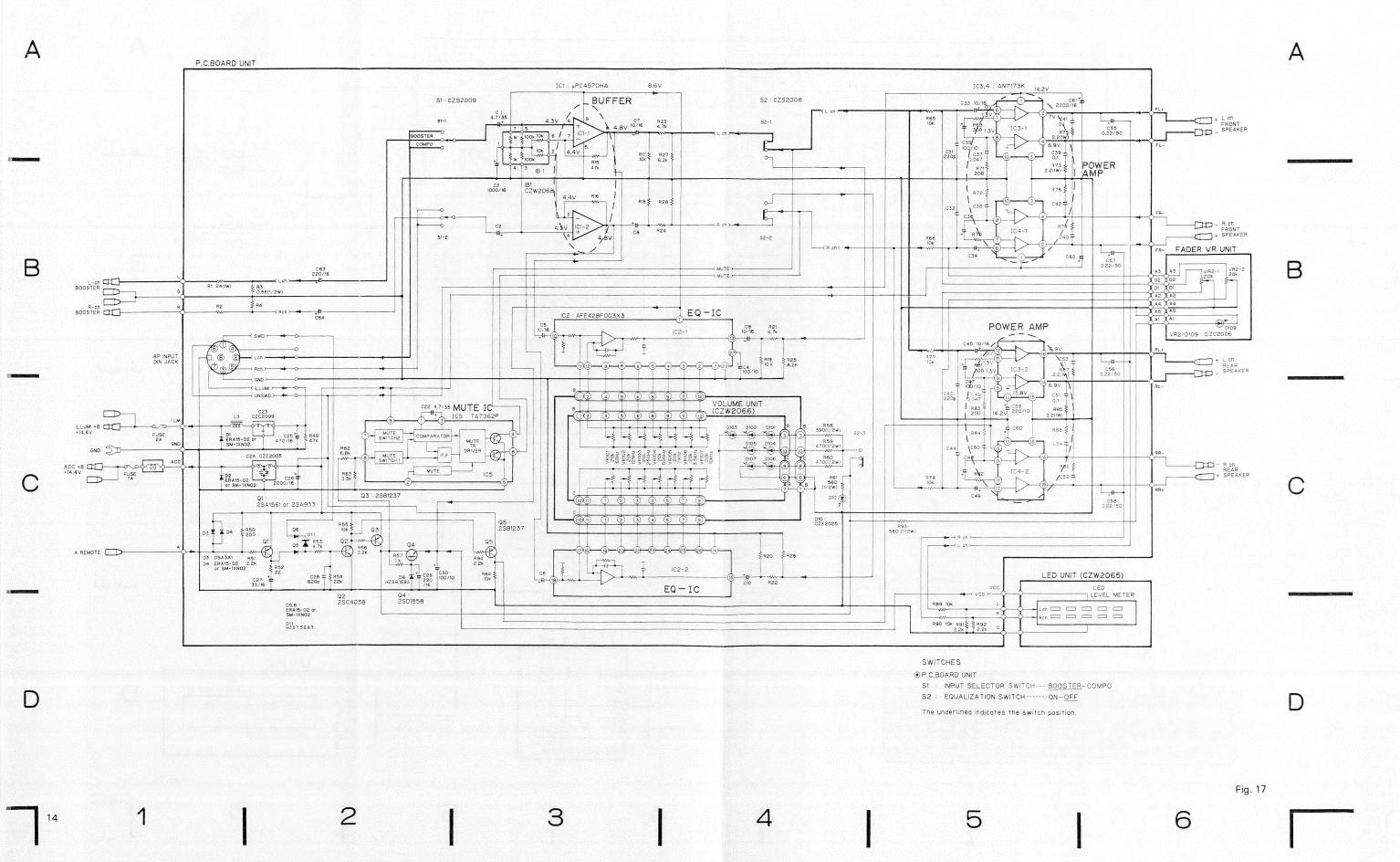
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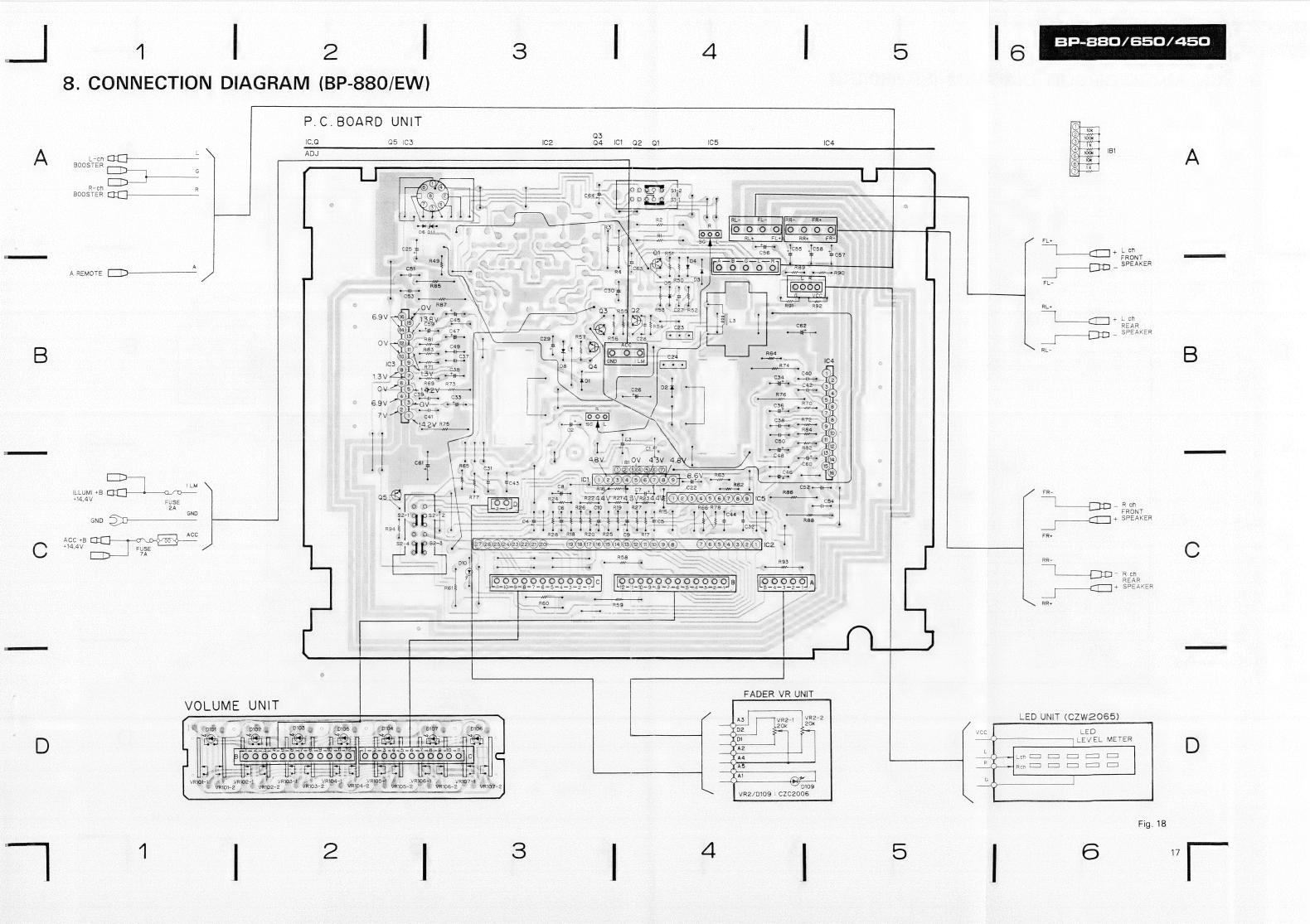
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9. SCHEMATIC CIRCUIT DIAGRAM (BP-880/UC)

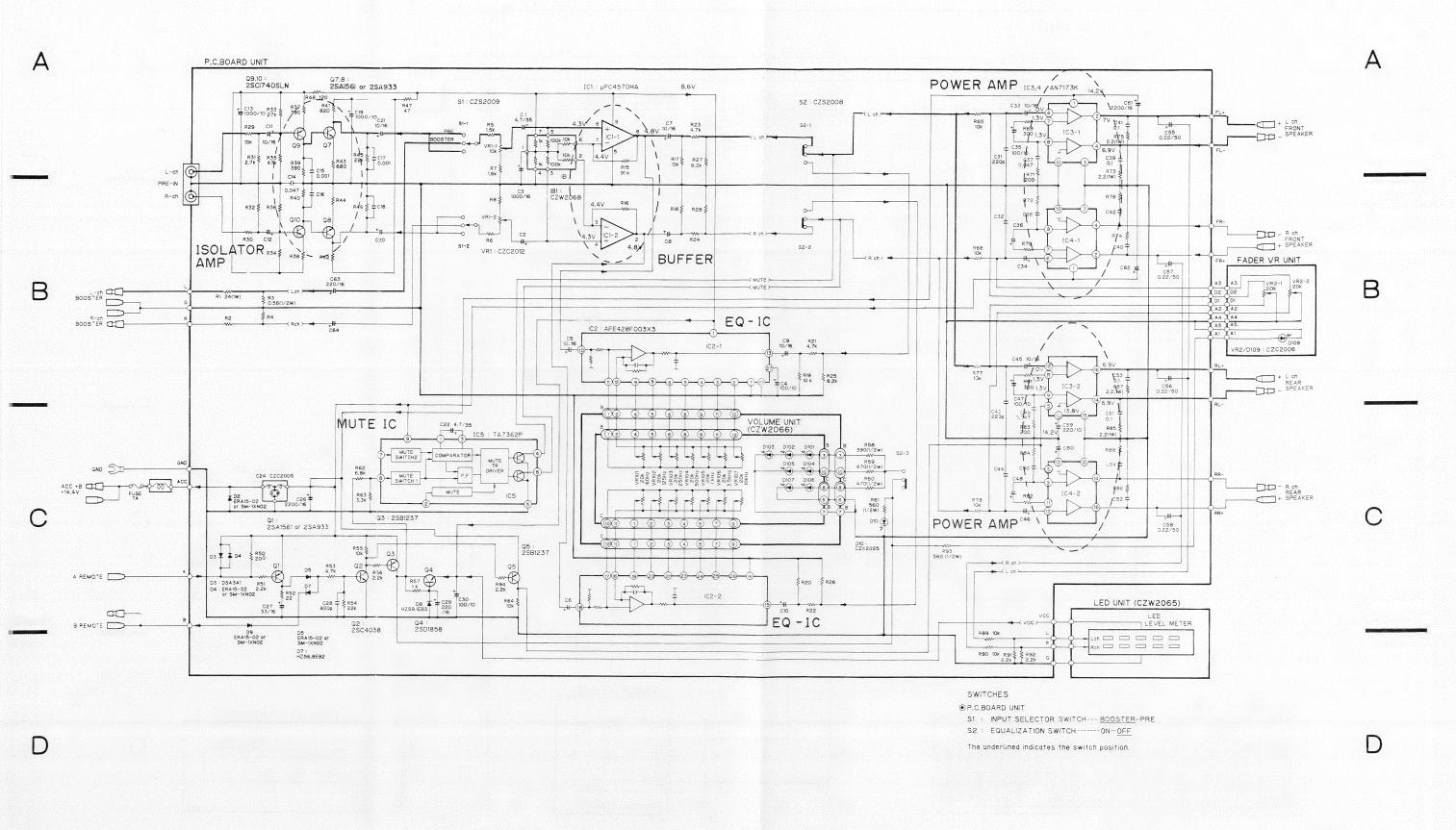
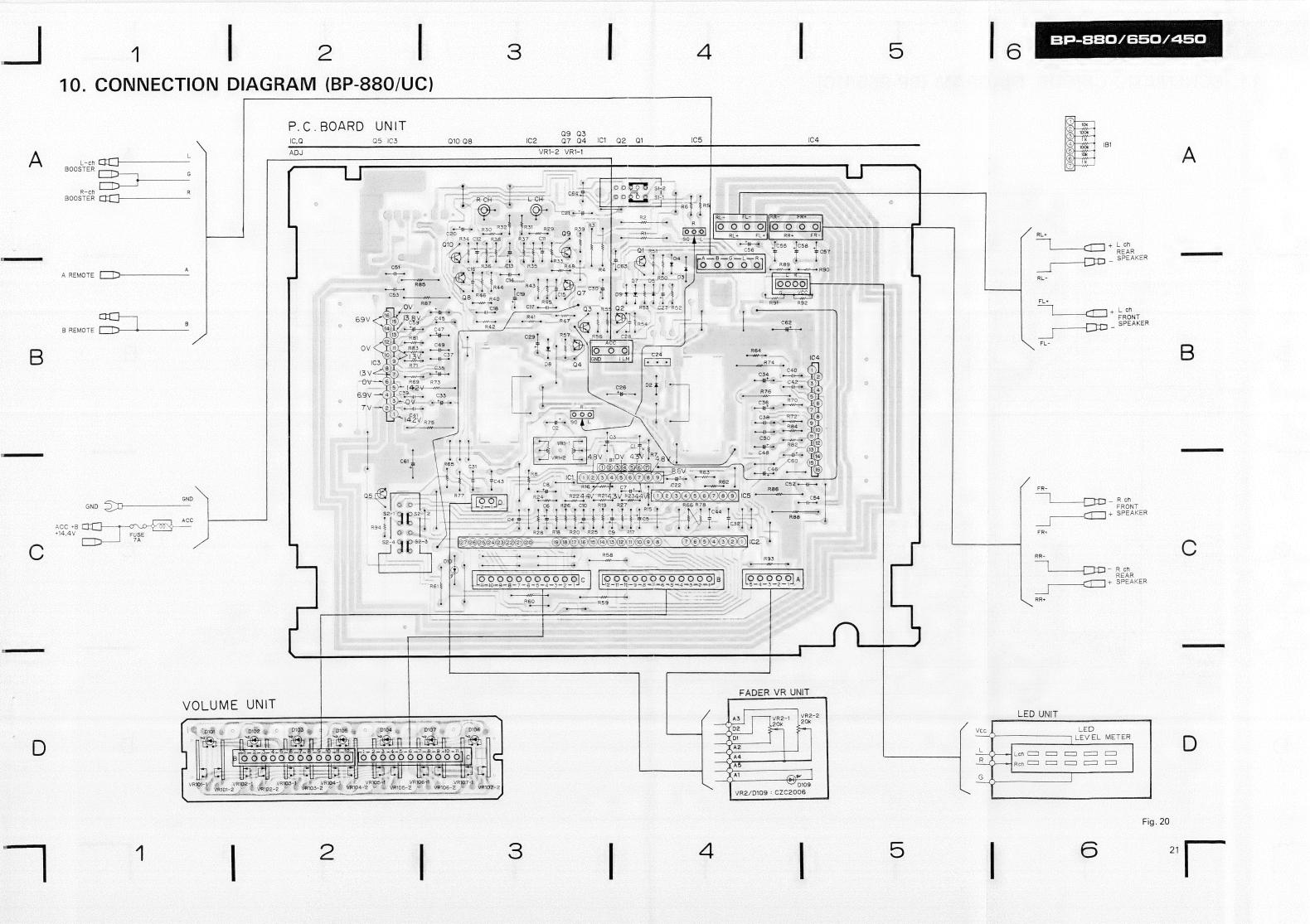
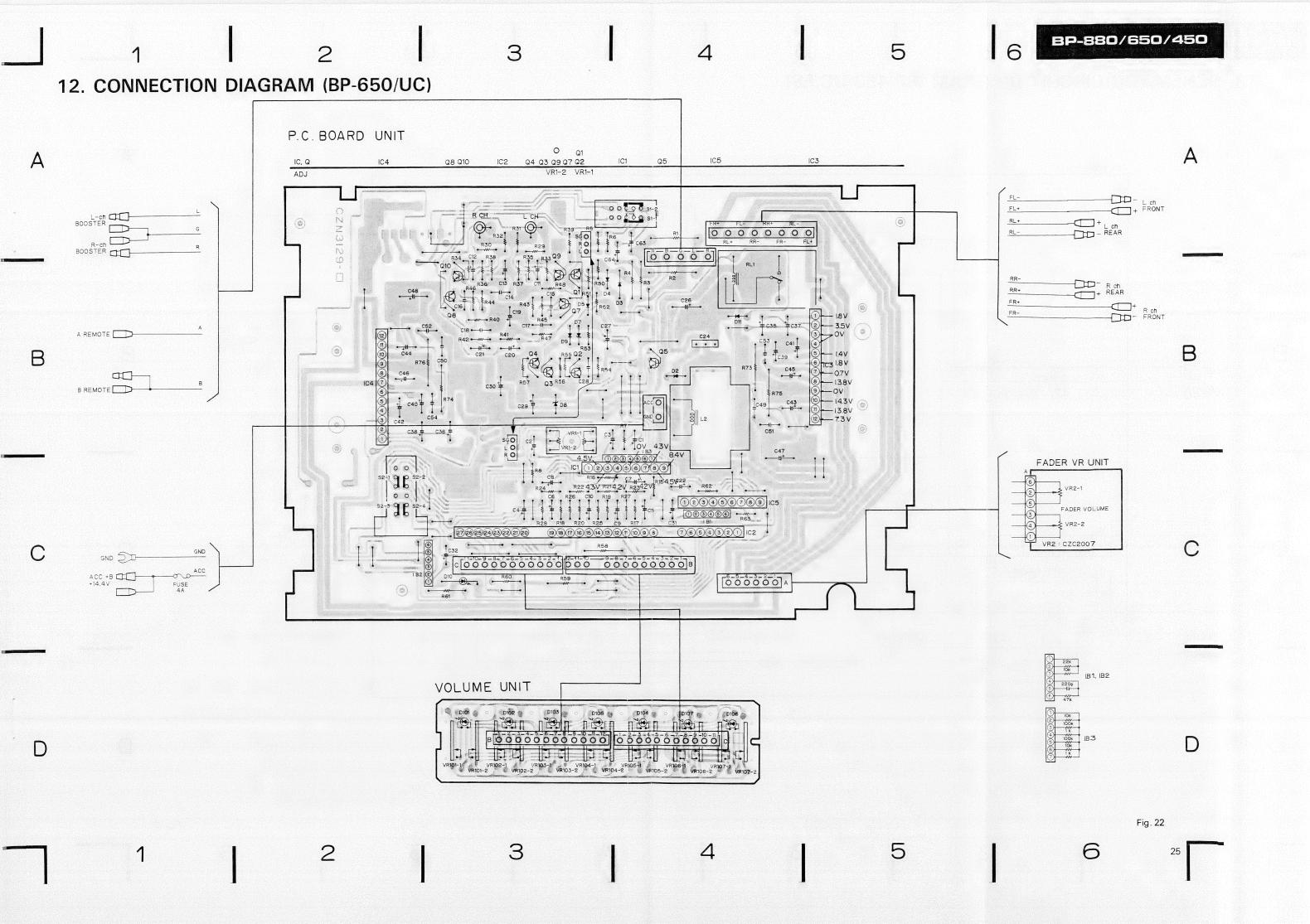
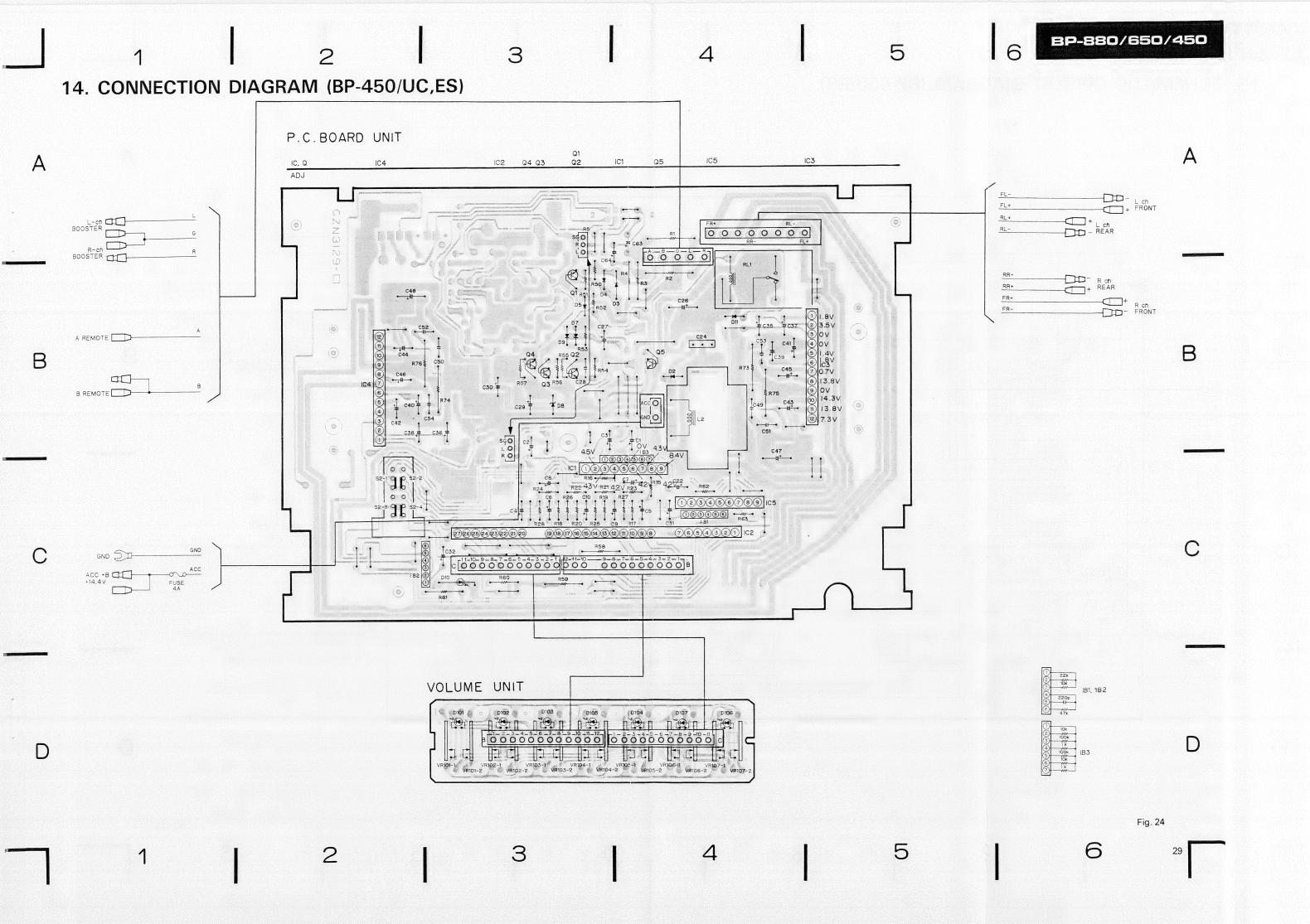
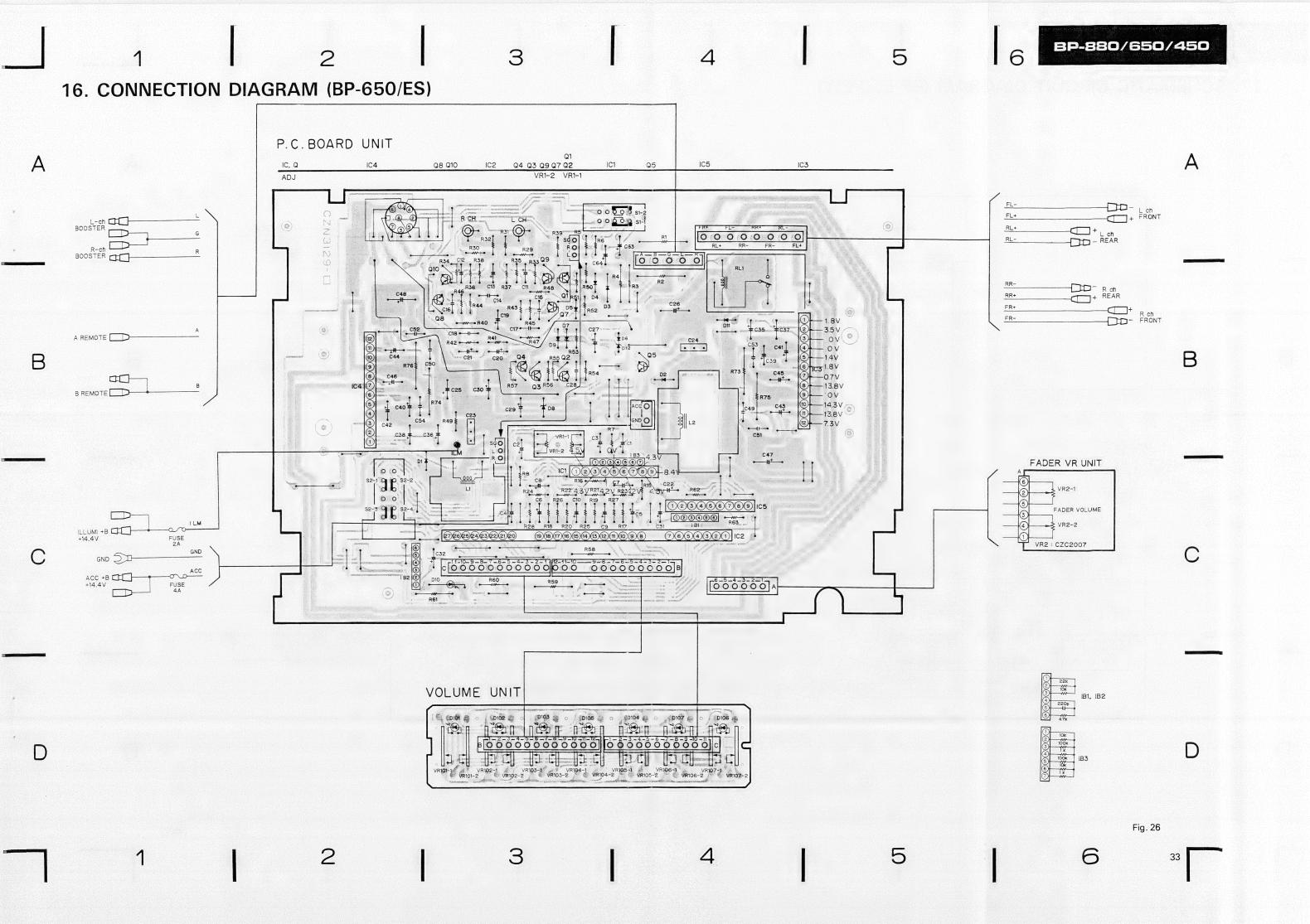


Fig. 19



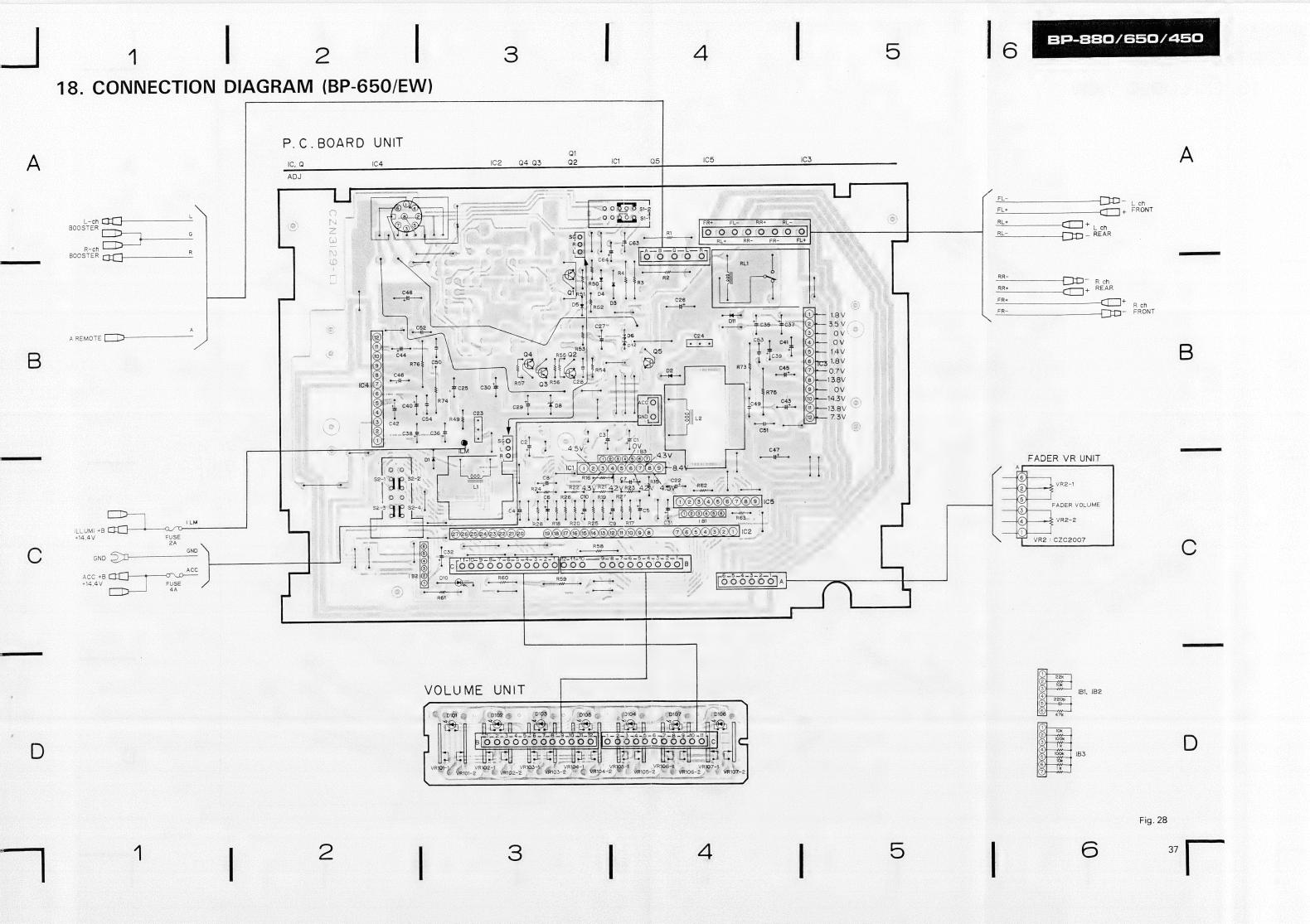


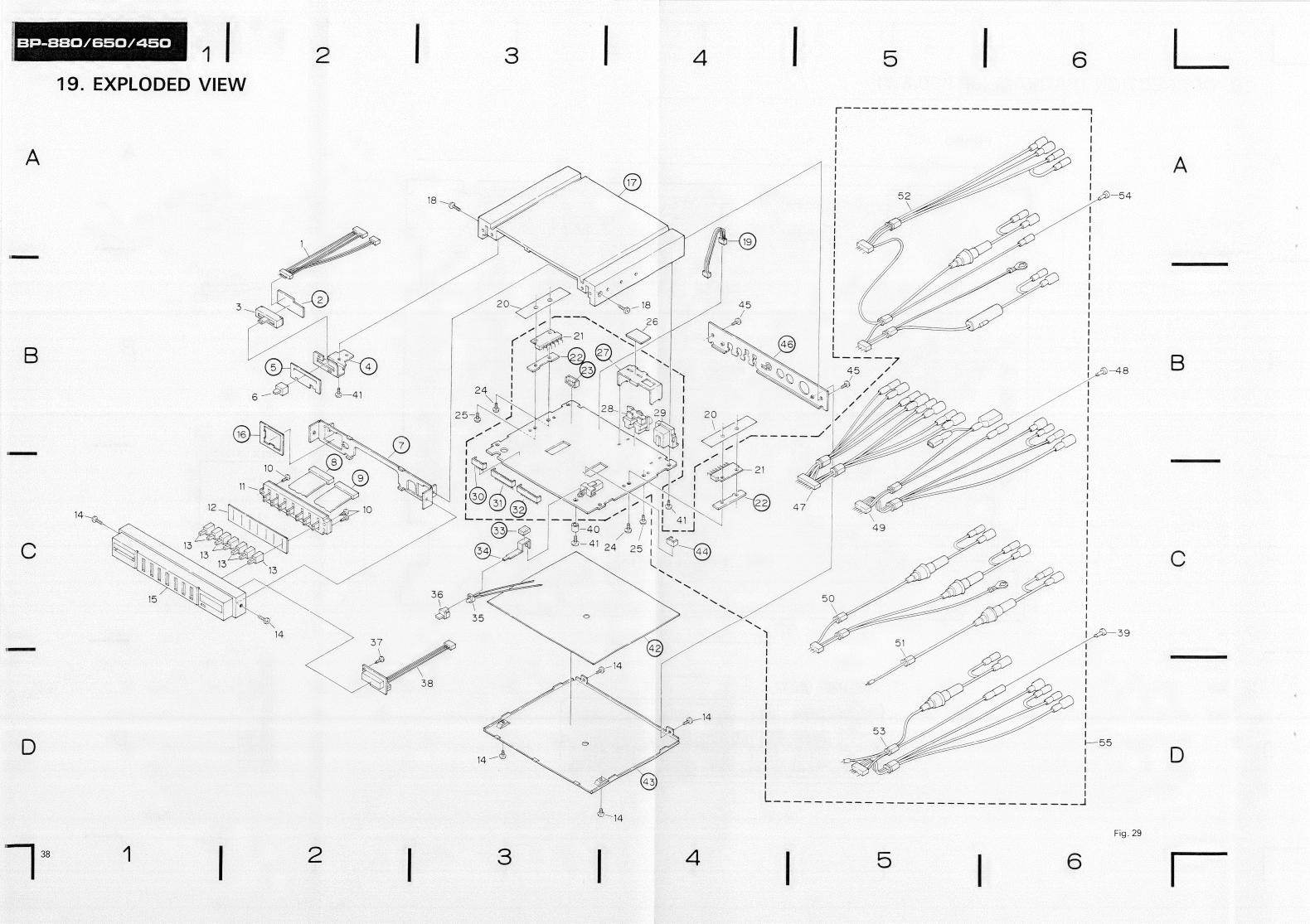




MPARATOR MUTE TR D11 : ERA15-02 or SM-1XN02 D 11 RL1 Q RL1: RELAY CZS201 SWITCHES ● P.C.BOARD UNIT A REMOTE 243A1 R51 2.2k 14 : ERA15-02 or SM-1XNO2 S1 : INPUT SELECTOR SWITCH---- BOOSTFR-COMPO D3 : DSA3A1 S2 : EQUALIZATION SWITCH-----ON-OFF The underlined indicates the switch position. EQ - IC D D

Fig. 27





• Parts List

Note:

- For your Parts Stock Control, the fast moving items are indicated with the marks ★★: and ★.
 - ★ ★: GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "

 " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1		Connector (7P) (BP-880)		32		Connector (11P)
			Connector (6P) (BP-650)		33		Cushion
	2		P.C. Board		34		Lever
**	3	CZC2006	Volume (BP-880)		35	CZX2025	LED Assy
	Ū	CZC2007	Volume (BP-650)	*	36	CZA2053	Button
	4		Holder (BP-880, 650)		37 ·	PVZ14P045FZK	Screw
	5		Cover (BP-880, 650)		38	CZW2065	LED Unit (BP-880)
*	6	CZA2051	Knob (BP-880)		39	CKX-003	Cover (BP-650/EW)
	•	CZA2052	Knob (BP-650)		40	CZB2003	Spacer
	7	02/2002	Bracket		41	BMZ26P050FMC	Screw
	8		Connector (12P)		42		Insulator
	9		Connector (11P)		43		Chassis
	10	PVZ17P080FZK	Screw		44		Plug (2P) (BP-880)
	11	CZW2066	Volume Unit		45	BRZ30P080FZK	Screw
	12	02112000	Cover		46		Panel
*	13	CZA2045	Knob		47	CZD2083	Connector Assy (BP-880)
	14	BMZ26P040FZK	Screw			CZD2090	Connector Assy (BP-650)
	15	CZX2029	Grille Unit (BP-880/UC,ES)			CZD2091	Connector Assy (BP-450)
		CZX2030	Grille Unit (BP-650/UC,ES)		48	CKX-003	Cover (BP-880/UC,ES,
		CZX2033	Grille Unit (BP-880/EW)				650/UC,ES, 450/UC,ES)
		CZX2034	Grille Unit (BP-650/EW)		49	CZD2081	Connector Assy
		CZN3121	Grille (BP-450/UC,ES)				(BP-880/UC,ES, 650/UC,ES,
	16		Insulator				450/UC,ES)
	17		Heat Sink		50	CZD2082	Connector Assy (BP-880/ES)
	18	BMZ26P100FZK	Screw			CZD2085	Connector Assy (BP-880/UC)
	19		Connector (3P)			CZD2089	Connector Assy
	20	CZN3135	Rubber				(BP-650/UC,ES, 450/UC,ES)
**	21	AN7173K	IC (BP-880)		51	CZD2084	Connector Assy (BP-650/ES)
		HA1384	IC (BP-650, 450)		52	CZD2093	Connector Assy (BP-880/EW)
	22		Spacer		53	CZD2092	Connector Assy (BP-65)/EW)
	23		Plug (4P) (BP-880)		54	CKX-003	Cover (BP-650/EW)
	24	BMZ30P100FZK	Screw		55	CZW2073	P.C. Board Unit (BP-88)/UC)
	25	BMZ30P080FMC	Screw			CZW2074	P.C. Board Unit (BP-88)/ES)
	26	CZN3131	Spacer			CZW2075	P.C. Board Unit (BP-88)/EW)
	27		Bracket (BP-880, 650)			CZW2076	P.C. Board Unit (BP-65)/UC)
	28	CZK2006	Jack (BP-880, 650)			CZW2077	P.C. Board Unit (BP-65)/ES)
	29	CZK2007	DIN Connector (BP-880, 650)			CZW2078	P.C. Board Unit (BP-65)/EW)
	30		Plug (5P) (BP-880) Plug (6P) (BP-650)			CZW2079	P.C. Board Unit (BP-45)/UC,ES
	31		Connector (12P)				

20. ELECTRICAL PARTS LIST

NOTE:

When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

<i>560</i> Ω	56×10^{1}	E61	RD1/4PS 561J
2002	50 X 10		
47kΩ	47×10^{3}	473	RD1/4PS473J
<i>0.5</i> Ω	0R5		RN2H 回用⑤K
10	010		$RS1P$ $\boxed{0}$ $\boxed{1}$ $\boxed{0}$ K

- For your Parts Stock Control, the fast moving items are indicated with the marks
 ★ ★ and ★.
 - ★ ★: GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

• Parts whose parts numbers are omitted are subject to being not supplied.

P.C. Board Unit (BP-880)

RESISTORS (BP-880)

MISCELLANEOUS			Mark	Symbol & Description	Part No.	
* * * *	Symbol & Des IC1 IC2 IC3, 4 IC5	scription	Part No. μPC4570HA AFE428F003X3 AN7173K TA7362P		R1, 2, 73 – 76, 85 – 88 R3, 4 R5 – 8, 29 – 48 (BP-880/UC,ES) R15 – 28, 50 – 57, 62 – 66, 69 – 77, 78, 81 – 84, 89 – 92, 94	RS1P□□□JL RS1/2P□□□JL RD1/6PM□□□J 72, RD1/6PM□□□J
**			2SA1561 (2SA933) 2SC4038 2SB1237		R49 (BP-880/EW,ES) R58 — 61, 93	RD1/6PM□□□J RD1/2PM□□□JL
**		(BP-880/UC,ES)	2SD1858 2SA1561	CAPA Mark	CITORS (BP-880) Symbol & Description	Part No.
*	Q9, 10 D1 D2, 4, 5	(BP-880/UC,ES) (BP-880/EW,ES)	(2SA933) 2SC1740SLN SM-1XN02 (ERA15-02) SM-1XN02		C1, 2, 22 C3 1,000 μF/16 V C4, 30, 35, 36, 47, 48 C5 – 10 C11, 12, 20, 21 (BP-880/UC,ES)	CEA4R7M35L2 CZC2014 CEA101M10L2 CEA100M16L2 CEA100M16L2
	D3 D6 D7	(BP-880/EW,ES) (BP-880/UC,ES)	(ERA15-02) DSA3A1 SM-1XN02 (ERA15-02) HZS6R8EB2		C13, 19 (BP-880/UC,ES) C14 (BP-880/UC,ES) C15 – 18 (BP-880/UC,ES) C23 (BP-880/EW,ES) C24	CZC2015 CQMA473J50 CKPYB102K50L CZC2009 CZC2005
	D8 D9 D10 D11	(BP-880/UC,ES) LED Assy (BP-880/EW,ES)	HZS9R1EB3 SM-1XN02 (ERA15-02) CZX2025 HZS7R5EB3		C25 (BP-880/EW,ES) C26, 61, 62 2,200 µF/16 V C27 C28 C29	CEA471M16L2 CZC2013 CEA330M16L2 CKPYB821K50L CEA221M16L2
**		Coil (BP-880/EW,ES) INPUT SELECTOR) EQUALIZATION) Volume, 10 kΩ (BP-880/UC,ES)	CTF-002 CZW2068 CZS2009 CZS2008 CZC2012		C31, 32, 43, 44 C33, 34, 45, 46 C37, 38, 49, 50 C39 – 42, 51 – 54	CKPYB221K5OL CEA100M16L2 CGDYX473K25 CGDYX104K25

Symbol & Description	Part No.
C55 — 58	CEAR22M50L2
C59, 60	CEA221M10L2
C63, 64	CEA221M16L2
	C55 – 58 C59, 60

P.C. Board Unit (BP-650)

MISCELLANEOUS

Mark	Symbol & Des	cription	Part No.
* * * * * * * * * * * * * * * * * * *	IC3, 4 IC5		μPC4570HA AFE428F003X3 HA1384P TA7362P 2SA1561
** **	Q2 Q3		(2SA933) 2SC4038 2SB1237 (2SB909M) 2SD1858
** ** **	Q5 Q7, 8 Q9, 10 D1	(BP-650/UC,ES) (BP-650/UC,ES) (BP-650/EW,ES)	DTC114TF 2SA933SLN 2SC1740SLN SM-1XN02 (ERA15-02)
* * *	D2, 4, 5 D3 D6	(BP-650/EW,ES)	SM-1XN02 (ERA15-02) DSA3A1 SM-1XN02 (ERA15-02)
* * *	D7 D8 D9	(BP-650/UC,ES) (BP-650/UC,ES) LED Assy	HZS6R8EB2 HZS9R1EB3 SM-1XN02 (ERA15-02) CXZ2025
*	D11 D12 L1 L2	(BP-650/ES,EW) Coil (BP-650/EW,ES) Transformer	SM-1XN02 (ERA15-02) HZS7R5EB3 CTF-001 CTH1001
** **		Relay NPUT SELECTOR) QUALIZATION) Volume, 10 kΩ	CZW2072 CZW2068 CZS2011 CZS2009 CZS2008
	200	(BP-650/UC,ES)	

RESISTORS (BP-650)

Mark	Symbol & Description	Part No.
	R1, 2, 73 – 76	RS1P□□□JL
	R3, 4	RS1/2P□□□JL
	R5 - 8, 29 - 48 (BP-650/UC,ES)	RD1/6PM□□□J
	R15 - 28, 50 - 57, 62, 63	RD1/6PM□□□J
	R49 (BP-650/EW)	RD1/6PM□□□J
	n=9 61	PD1/2PM□□□□Ⅱ

CAPACITORS (BP-650)

Mark	Symbol & Des	scription	Part No.
	C1, 2, 22, 31 C3 C4 C5 – 10	, 32 1,000 μF/16 V 21 (BP-650/UC,ES)	CEA4R7M35L2 CZC2014 CEA101M16L2 CEA100M16L2 CEA100M16L2
	C13 C14	(BP-650/UC,ES) (BP-650/UC,ES) (BP-650/UC,ES) (BP-650/UC,ES) (BP-650/UC,ES)	CEA471M16L2 CQMA473J50 CKPYB102K50L CZC2015 CZC2009
	C24 C25 C26, 47, 48 C27 C28	(BP-650/EW,ES) 2,200 μF/16 V	CZC2005 CEA471M16L2 CZC2013 CEA330M16L2 CKPYB821K50L
	C29, 43 – 46 C30 C35 – 40 C41, 42 C49 – 52		CEA221M16L2 CEA101M16L2 CEA221M6R3L2 CEA470M10L2 CGDYX204K25L
	C53, 54 C63, 64		CKPYB102K50L CEA221M16L2

P.C. Board Unit (BP-450)

MISCELLANEOUS

lark	Symbol &	Description	Part No.
**	IC1		μPC4570HA
**	IC2		AFE428F003X3
**	IC3, 4		HA1384P
	IC5		TA7362P
**	Q1		2SA1561
			(2SA933)
**	Q2		2SC4038
**	Q3		2SB1237
			(2SB909M)
**	Q4		2SD1858
**	Ω5		DTC114TF
*	D2, 4, 5,	9, 11	SM-1XN02
			(ERA15-02)
*	D3		DSA3A1
*	D7		HZS6R8EB2
*	D8		HZS9R1EB3
*	D10	LED Assy	CZX2025
	L2	Transformer	CTH1001
	IB1, 2		CZW2072
	IB3		CZW2068
	RL1	Relay	CZS2011
**	S2 Switc	h (EQUALIZATION)	CZS2008

RESISTORS (BP-450)

Mark	Symbol & Description	Part No.	
	R1, 2, 73 – 76	RS1P□□□JL	
	R3, 4	RS1/2P□□□J	
	R15 - 28, 50 - 57, 62, 63	RD1/6PM□□□J	
	R58 – 61	RD1/2PM□□□JL	

Fader VR Unit

Mark	Symbol & De	escription	Part No.		
	VR2/D109 VR2	Volume (BP-880) Volume (BP-650)	CZC2006 CZC2007		

CAPACITORS (BP-450)

Mark	Symbol & Description	Part No.		
	C1, 2, 22, 31, 32	CEA4R7M35L2		
	C3	CZC2014		
	C4	CEA101M16L2		
	C5-10	CEA100M16L2		
	C24	CZC2005		
	C26, 47; 48	CZC2013		
	C27	CEA330M16L2		
	C28	CKPYB821K50L		
	C29, 43-46	CEA221M16L2		
	C30	CEA101M16L2		
	C35-40	CEA221M6R3L2		
	C41, 42	CEA470M10L2		
	C49-52	CGDYX204K25L		
	C53, 54	CKPYB102K50L		
	C63, 64	CEA221M16L2		

21. PACKING METHOD

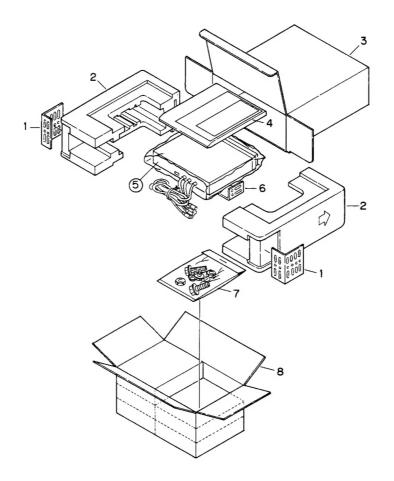


Fig. 30

• Parts List

Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	1	CNB1159	Mounting Bracket		5	`	Cover
			(BP-880/UC, 650/UC, 450/UC)		6	CNB-720	Mounting Bracket
	2	CZH3110	Styrofoam (BP-880)				(BP-880/EW,ES, 650/EW,ES,
		CZH3111	Styrofoam (BP-650, 450)				450/ES)
	3	CZH3112	Carton (BP-880/UC)		7	CZE2017	Screw Assy
		CZH3114	Carton (BP-880/ES)				(BP-880/EW,ES, 650/EW,ES,
		CZH3116	Carton (BP-880/EW)				450/ES)
		CZH3118	Carton (BP-650/UC)			CZE2021	Screw Assy
		CZH3120	Carton (BP-650/ES)				(BP-880/UC, 650/UC, 450/UC)
		CZH3122	Carton (BP-650/EW)		7-1	CBA-102	Screw
		CZH3124	Carton (BP-450/UC)		7-2	HMF40P080FZK	Screw
		CZH3126	Carton (BP-450/ES)		7-3	NF50FMC	Nut
	4	CRD1147	Installation Manual		8	CZH3113	Contain Box (BP-880/\C)
			(BP-880/UC, 650/UC, 450/UC)			CZH3119	Contain Box (BP-650/IC)
		CZR2045	Owner's Manual			CZH3125	Contain Box (BP-450/\C)
			(BP-880/UC, 650/UC, 450/UC)				
		CZR2047	Owner's Manual				
			(BP-880/ES, 650/ES, 450/ES)				
		CZR2048	Owner's Manual				
			(BP-880/EW, 650/EW)				